

Amendments To the Claims:

Please amend the claims as shown. Applicants reserve the right to pursue any cancelled claims at a later date.

1.-24. (cancelled)

25. (new) A system for reliably acquiring input values, comprising:

an operator device having; and

a failsafe arithmetic unit, wherein

the operator device comprises:

a first display for displaying a first value input via an input device;

a communication device for a unencrypted transmission of the first value together with an identification value, to the arithmetic unit;

an arithmetic processor for converting a second value into a third value, the second value communicated by the arithmetic unit;

a second display for displaying the third value; and

a third display for displaying a fourth value input via the input device, the arithmetic processor configured to convert the fourth value into a fifth value, the communication device configured for an unencrypted transmission of the fifth value together with the identification value, to the arithmetic unit, and

the arithmetic unit comprises:

a memory for storing the first value and for storing control and limit values;

a first comparator for the comparing the identification value to at least one of the stored control values;

a second comparator for comparing the first value to the limit values;

a second arithmetic processor for converting the first value into the second value;

a transmission unit for an unencrypted transmission of the second value to the operator device; and

a third comparator for comparing the fifth value to the first value.

26. (new) The system according to claim 25, wherein the first or second arithmetic processors are configured to calculate a complement of the first, second, third, fourth or fifth value.

27. (new) The system according to claim 25, wherein the arithmetic unit further comprises a release device for authorizing the first value based on comparison results processed by the first, second or third comparator.

28. (new) The system according to claim 25, wherein the first and second display are configured to display the first respectively third value in different formats.

29. (new) The system according to claim 25, wherein the operator device further comprises an abort function configured to be activated via the input device.

30. (new) The system according to claim 25, wherein the arithmetic unit further comprises a programmable monitoring unit for time-monitoring a transmission of the first and fourth values.

31. (new) The system according to claim 25, wherein the operator device further comprises a fourth display for displaying a sixth value transmitted by the arithmetic unit.

32. (new) The system according to claim 25, wherein the memory is configured for a diversitary storage of the control values.

33. (new) The system according to claim 25, wherein the input device does not enable a drag & drop function.

34. (new) The system according to claim 25, wherein the arithmetic unit further comprises a failsafe function for safely executing a function test of the operator device.

35. (new) The system according to claim 25, wherein the operator device further comprises an authentication function means for authenticating users.

36. (new) A method of reliably acquiring input values, comprising:  
displaying by an operator device on a first display a first value input via an input device;  
transmitting the first value together with an identification value, to a failsafe arithmetic unit by the operator device;  
converting a second value communicated by the arithmetic unit into a third value, by the operator device;  
displaying the third value on a second display of the operator device;  
displaying on a third display of the operator device a fourth value input via the input device;  
converting the fourth value into a fifth value by the operator device;  
transmitting the fifth value together with the identification value to the arithmetic unit, by the operator device;  
storing the first value and control and limit values, by the arithmetic unit;  
comparing the identification value to at least one of the control values by a first comparator of the arithmetic unit;  
comparing the first value to the limit values by a second comparator of the arithmetic unit;  
converting the first value into a second value, by the arithmetic unit;  
transmitting the second value without encryption to the operator device, by the arithmetic unit; and

comparing the fifth value to the first value by a third comparator of the arithmetic unit.

37. (new) The method according to claim 36, wherein a complement of the first, second, third, fourth or fifth value is calculated when converting the first, second, third, fourth or fifth value.

38. (new) The method according to claim 36, wherein the arithmetic unit authorizes the first value based on comparison results processed by the first, second or third comparator.

39. (new) The method according to claim 36, wherein the first respectively third value are displayed in different formats.

40. (new) The method according to claim 36, wherein the operator device comprises an abort function configured to be activated via the input device.

41. (new) The method according to claim 36, further comprising time-monitoring a transmission of the first and fourth values by a programmable monitoring unit of the arithmetic unit.

42. (new) The method according to claim 36, wherein the input device does not enable a drag & drop function.

43. (new) The method according to claim 36, further comprising executing a function test of the operator device by a failsafe function of the arithmetic unit.

44. (new) The method according to claim 36, further comprising authenticating a user by the operator device.